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TITLE : FLUOROCARBON TYPE FIBER

ABSTRACT : PURPOSE: Novel fluorocarbon type fibers, which are fibrous materials consisting of carbon in the central parts thereof and a fluorocarbon in the surface thereof, and having a helical type cylindrical crystal structure, and useful for active materials in cells, lubricating materials, water repellent materials, etc.

CONSTITUTION: Fluorocarbon fibers obtained by heating raw material carbon fibers, preferably having 1~100 μ thickness, in a reactor, passing fluorine gas, preferably diluted with an inert gas, e.g. N₂, to 10~50% concentration, through the reactor, fluorinating the carbon fibers, preferably at 200~600°C, uniformly from the peripheries of the filaments to the interior, and forming the fluorocarbon layers of uniform thickness, and having the central parts consisting of the carbon and the surface consisting of the fluorocarbon and further the helical type cylindrical crystal structure.

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